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PHOTOGRAPHIC INTERPRETATION REPORT

HIGH-FREQUENCY COMMUNICATIONS RECEIVING SITE NEAR GOLITSYNO, USSR



ARMY



NAVY



AIR FORCE

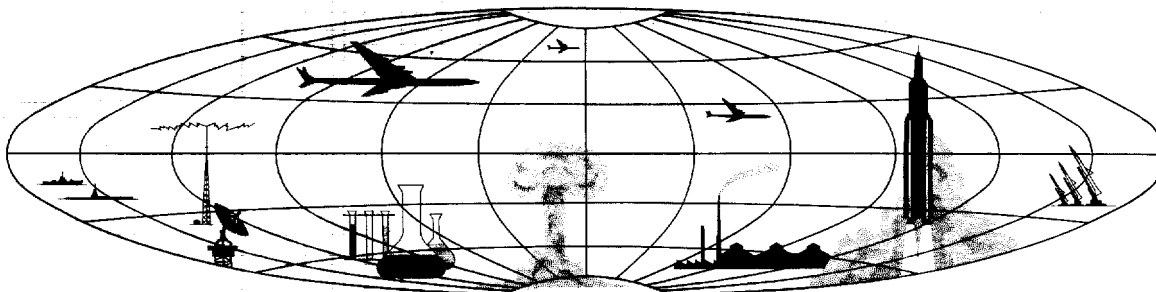


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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



TOP SECRET

HIGH-FREQUENCY COMMUNICATIONS RECEIVING SITE NEAR GOLITSYNO, USSR

25X1D

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A high-frequency communications site was revealed on KEYHOLE photography of [REDACTED] near Golitsyno, at 55-35-[REDACTED]N 37-03-[REDACTED]E, 2.5 nautical miles southwest of Moscow (Figure 1). The configuration of the cleared ground patterns indicates that the site contains both fishbone (traveling wave) and rhombic antennas. This installation has been designated as a receiving site because of the presence of the fishbone antennas.

The operational area of the receiving site has been divided into two sections, designated 1 and 2. Section 1 consists of a control area with its surrounding antenna field, and Section 2 consists of a possible control area with its surrounding possible antenna field (Figure 2).

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All the antennas at this site have been constructed since [REDACTED], at which time the area was covered by TALENT photography (Figure 3). Examination of the [REDACTED] photography revealed, however, that the control building for Section 1 and the service road were under construction at that time. The areas for the antennas were cleared of forest cover between the two coverages.

The antenna field of Section 1 consists of eight rhomboid-shaped cleared ground patterns (for rhombic antennas) and eight rectangular cleared ground patterns (for fishbone antennas) encircling the control area. The dimensions and orientations of the rhomboid patterns indicate operation on both day and night frequencies, and

their specific siting indicates a capability for space diversity reception.

The long axes of the rhomboid-shaped ground patterns lettered A, B, E, and F are oriented on a [REDACTED] degrees and those lettered C, D, G, and H are on an [REDACTED] degrees. Possible correspondents on the forward azimuths are Arkhangel'sk, Vorkuta, and Igarka (Figure 1). All these cities have transmission facilities.

The clearings for the fishbone antennas at Section 1 are divided into two groups, located on opposite sides of the control area. The rectangular cleared areas indicate that each group consists of four fishbone antennas. The arc of coverage for each pair of side-by-side fishbone antennas appears to be at least [REDACTED] degrees (Figure 4). With this alignment, the reception arc could be either from [REDACTED] degrees to 140 degrees or from [REDACTED] degrees to 320 degrees. These ground patterns, however, have similarities of orientation and siting which may indicate a capability for space diversity reception. If a space-diversity relationship is assumed for the fishbone antennas, the most probable reception orientation would be between [REDACTED] degrees and 140 degrees.

The antenna field in Section 2 consists of at least 12 cleared areas encircling a possible control area. Neither the type nor the orientation of the possible antennas can be determined from available photography.

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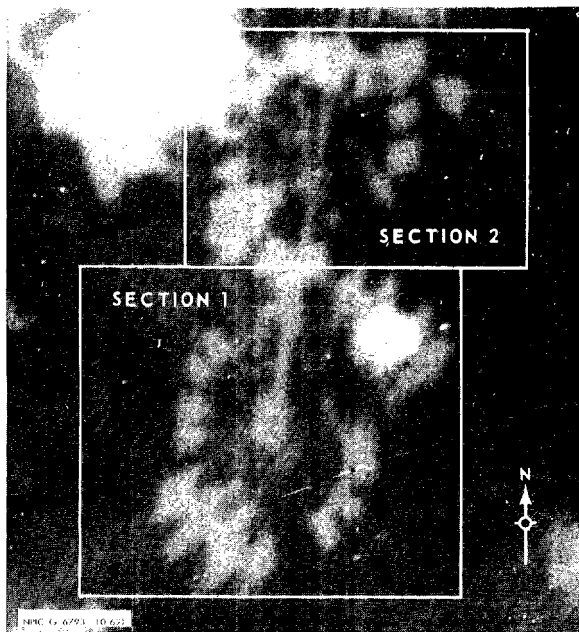


FIGURE 2. HIGH-FREQUENCY RECEIVING SITE AS OF 25X1D

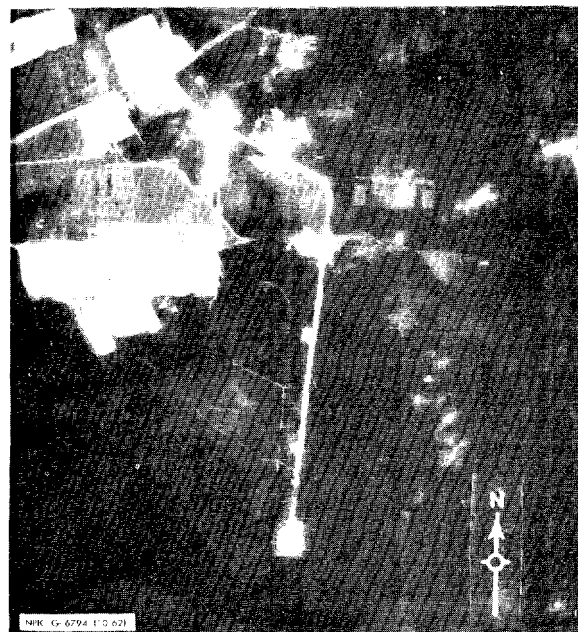


FIGURE 3. AREA OF THE RECEIVING SITE AS OF 25X1D

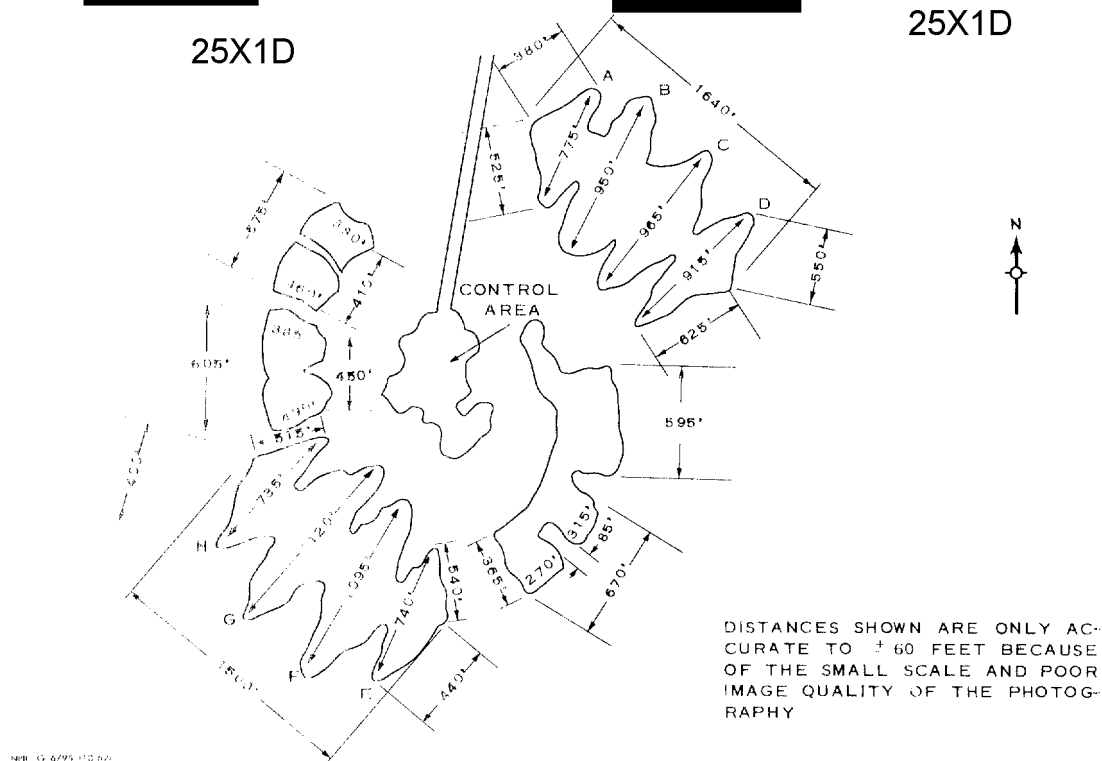


FIGURE 4. SECTION 1 OF THE RECEIVING SITE.

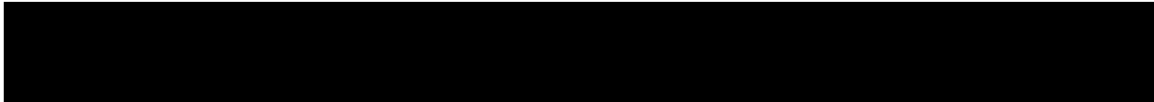
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REFERENCES

PHOTOGRAPHY

25X1D

| <u>Mission</u> | <u>Date</u> | <u>Pass</u> | <u>Camera</u> | <u>Frames</u> | <u>Classification</u> |
|----------------|-------------|-------------|---------------|---------------|-----------------------|
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MAPS OR CHARTS

ACIC. Air Target Mosaic, Series 50, Sheet 0167-4/12MA, 1st ed, Jan 59, scale 1:50,000 (SECRET)

ACIC. US Air Target Chart, Series 200, Sheet 0167-4A, 1st ed, Jan 59, scale 1:200,000 (SECRET)

USNHO. H.O. 6706, 1st ed, Aug 47 (UNCLASSIFIED)

REQUIREMENT

NPIC. PC 53-2

NPIC PROJECT

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